

FLUID MACHINE

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Abstract

PROBLEM TO BE SOLVED: To provide a fluid machine with high efficiency and more reliability, capable of ensuring prevention of mutual contact of parts, increasing electric input and gas leakage.

SOLUTION: A fluid machine includes a cylinder 5 in a cylindrical shape, a roller 14 arranged in the cylinder, a spiral blade 18 arranged between the roller and the cylinder and formed with pitches gradually smaller from one end to the other end and an operation mechanism 3 having a plurality of operation chambers 20, the cylinder, the blade and roller being formed of materials mutually different in thermal expansion coefficient and the operation mechanism having clearances between parts in assembly, formed gradually larger from a low pressure side S of the operation chamber, where the pitch of the blade is smaller, to a high pressure side D.

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